

CWSF 2007 - Truro, Nova Scotia



Timmy Carlielle-Shaw

Chromatography and Organic Components Cretaceous Fossils

Division: Engineering & Computing Sciences / None

Category: Junior

Region: Central Alberta

City: Olds, AB

School: Deer Meadow School

Abstract: During the fossilization process organic material immediately begins to degrade and is slowly replaced by minerals. This project uses modern techniques such as Thin Layer Chromatography to determine if any organic compounds in cretaceous material can be preserved during fossilization. Results show trace evidence of organic compounds in all the examples tested.

Biography

I am in grade seven and attend Deer Meadow School in Olds, Alberta. I have entered science fairs for the last six years, and won best of fair for Central Alberta at the elementary level two years in a row. My hobbies include camping, biking with my friends, and making chainmaille, an ancient art that produces beautiful jewelry or tough armor. I also enjoy collecting fossils in the Alberta badlands with my dad and I am a member of the Alberta Paleontology Society.

Awards

Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Earth & Environmental Sciences - Junior Sponsor: Petro-Canada	\$300
Total	\$1 300